

GAVIN FOX

CONTACT INFO

Email

4gdfox@gmail.com

Phone

610-717-8608

LinkedIn

linkedin.com/in/gavin-fox4

GitHub

github.com/F0xy25/Portfolio

EDUCATION

Drexel University

–BS Mechanical Engineering

–Computer Science Minor

–Data Science Minor

Anticipated Graduation:

June 2022

SKILLS

Certifications

Government Clearance: Secret

CITI: Human Subjects Research

CITI: Biomedical Research

Coding Languages

Python ROS

C++ Swift

XAML MATLAB

SQL Cypher

Programs and Structures

AWS MongoDB

Creo Kibana

Fusion 360 Docker

EPIC Kubernetes

NVIDIA Jetpack Unreal Engine

REDCap

Hardware and Sensors

Windows Mac

Linux iOS

NVIDIA Jetson Android

Raspberry Pi Apple Watch

Arduino Garmin Fenix

Dobot Magician Oura Ring

Turtlebot Burger

AWARDS

CiRight Design Competition

Winner – Medical Device

Category 2019

Baiada Institute- Distinguished
Company Award 2019

EXPERIENCE

SENIOR TECHNICAL SPECIALIST

Lockheed Martin Advanced Technology Laboratory, Cherry Hill, NJ

September 2020 – Present

- Generated model for detecting and classifying possible future disease diagnoses from self-reported symptom surveys with a 95% detection rate
- Developed program to create node-based, temporal collaboration networks and analyze foreign entity market penetration
- As a member of the product commercialization team, assisted in securing a six-figure contract from a commercial partner

TECHNICAL SPECIALIST

Lockheed Martin Advanced Technology Laboratory, Cherry Hill, NJ

September 2019 – September 2020

- Pitched and developed mobile eye-tracking solution for use in the detection of TBI and Infectious Disease; traveled to Arlington, VA to present work to DARPA
- Managed Human Subjects Research studies and related data collects; provided advice and feedback to program developers
- Developed program to detect biometric signal propagation through a population based on proximity

FOUNDER AND CEO

DragonSci Biomedical, Philadelphia, PA

October 2017 – Present

- Engineered and fully fabricated a patent-pending smart pill container specifically designed to combat the Opioid Epidemic
- Currently planning a placebo trial with UPENN Orthopedics
- Received backing from Pennsylvania Department of Health, Drexel University Innovation Studio, Drexel University Baiada Institute, and others

CLINICAL RESEARCH ASSISTANT

UPENN Neurosurgery Clinical Research Division, Philadelphia, PA

September 2018 – September 2019

- Oversee the use of trial devices by neurosurgeons and nursing staff intraoperatively
- Transport Biological Samples from Operating Room and handle sample storage and fulfillment of external tissue requests
- Visit directly with patients and patient's families, discuss relevant trials, and acquire informed consent

RESEARCH

RESEARCH ASSISTANT

Biomaterials Department, Drexel University, Philadelphia, PA

January 2018 – May 2018

- Performed mechanical testing of various concentrations of silicone and gelatin using a capillary rheometer
- Presented completed model to doctors and clinicians at Hahnemann Hospital
- Consulted with team about findings and how to improve overall design of uterine model for training in manual vacuum aspiration

Biomaterials Department, Drexel University, Philadelphia, PA

September 2017 – January 2018

- Briefed team on observations made during testing of PEEK cages used for vertebral disc replacement
- Operated 3D printing rig and furnace necessary for the fabrication and annealing of PEEK cages
- Performed data recording in MATLAB and model testing in both the physical environment and Fusion 360 software